

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/549,201	04/13/2000	William Turin	1999-0078	1999-0078 7855	
7.	2590 05/21/2003				
Oliff & Berridge PLC			EXAMINER		
PO Box 19928 Alexandria, VA 22320		TRAN, KI	TRAN, KHANH C		
			ART UNIT	PAPER NUMBER	
			2631	3	
			DATE MAILED: 05/21/2003	_	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
· .						
Office Action Summary	09/549,201	WILLIAM TURIN				
	Examiner Tree	Art Unit				
The MAILING DATE of this communication app	Khanh Tran ears on the cover sheet with the o					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>13 April 2000</u> .						
/ _	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-22 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 12</u> is/are rejected.						
7)⊠ Claim(s) <u>2-11 and 13-22</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>13 April 2000</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

Application/Control Number: 09/549,201

Art Unit: 2631

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Haller et al. U.S. Patent 6,182,261 B1.

Regarding claim 1, Haller et al. discloses in figure 3 an iterative decoder 100 including an inner APP decoder 104 (preferably MAP decoder), a frame buffer 102, an outer APP decoder (preferably MAP decoder), a decision unit 112, a CRC (cyclic redundancy check) checking unit 114, and a control unit 116. When both decoders 104, 110 have decoded a packet, the decoding system 100 has performed one iteration. The output from the outer decoder 110 is passed to the decision unit 112, which derives hard data. The hard data is passed to the CRC checking unit 114, which determines the CRC in accordance with known method and passes the CRC to the control unit 116. Based upon the CRC and other information, the control unit 116 decides whether to perform another decoding iteration.

Regarding claim 12, said claim is rejected using similar argument of claim 1. In addition, the frame buffer 102 is implemented with FIFO for storing incoming digitized

Art Unit: 2631

data. The control unit 116, coupled to the frame buffer, 102 decides whether to perform another decoding iteration based upon the cyclic redundancy checks and other information.

Allowable Subject Matter

2. Claims 2-11 and 13-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Specification

3. The abstract of the disclosure is objected to because the title "Appendix MAP Decoding in Channels with Memory" and "William Turin, Senior Member, IEEE", and "Keywords: Maximum a posteriori, EM algorithm, hidden Markov model, fading channel" should be deleted from the abstract. Correction is required. See MPEP § 608.01(b).

Conclusion

4. The prior art made of record and not relied upon could be considered pertinent to applicant's disclosure:

A list of references cited by the Examiner shown on the PTO-892.

Application/Control Number: 09/549,201

Art Unit: 2631

5. Any inquiry concerning this communication or earlier communications from the

Page 4

examiner should be directed to Khanh Tran whose telephone number is 703-305-2384.

The examiner can normally be reached on Tuesday - Friday from 08:00 AM - 05:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chi Pham can be reached on 703-305-4378. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-872-9314 for

regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-305-

3800.

KCT

May 16, 2003

CHI PHAM

OUDEDVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600 5/19